



Cat. No. 42-5073/42-5074  
**OWNER'S MANUAL**

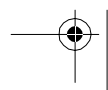
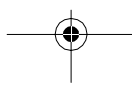
Please read before using this equipment.

# Portable Compact Disc Player

**CD-3620 (42-5073)**  
**CD-3640 (42-5074)**



**OPTIMUS®**





## FEATURES

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Your Optimus CD-3620/CD-3640 Portable Compact Disc Player uses the latest digital audio technology to give you the clean, crisp sound of compact discs. You can connect the CD player to your home audio or car stereo system or connect a pair of stereo headphones for portable, private listening.

The CD player's features include:

**Digital Anti-Shock System (DAS<sup>2</sup>) (CD-3640 only)** — rapidly scans data from the CD and stores it in memory for uninterrupted play with no sound skip even when the CD player is exposed to shocks or vibration. This makes this CD player excellent for use in your vehicle.

**Eight-Times Oversampling with Digital Filtering** — improves the CD's sound by multiplying the standard 44.1 kHz sample rate by eight and using a digital filter to reduce or eliminate distortion.

**1-Bit DAC** — uses the latest in digital-to-analog conversion circuitry to accurately reproduce all sound levels with virtually no distortion.

**Built-In Battery Charger** — recharges rechargeable batteries inside the player when you use an AC or DC adapter.

**Automatic Search Music System (ASMS)** — lets you quickly locate and play any track on a CD.

**Audible Search** — helps you locate a particular section of a track by rapidly playing the CD in either direction.

**Intro Scan** — helps you locate a desired track by automatically playing the first 10 seconds of each track on the CD.

**Programmable Play** — lets you program and play up to 24 tracks in any sequence you choose.

**Repeat Play** — lets you automatically repeat a single track, an entire CD, or a programmed sequence.

**Random Play** — lets you play the tracks on a CD in random order.

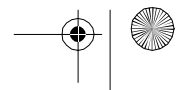
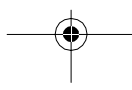
**Pause and Cue** — lets you temporarily stop play, or cue a track for play at a later time.

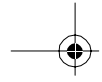
**Extended Bass System** — creates a fuller bass sound.

**Auto Power On/Off** — automatically turns on the CD player when you press **PLAY** and turns it off when you stop play or 2 minutes after the CD finishes playing.

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**Hold** — prevents accidentally changing the CD player's control settings and conserves battery life by locking most controls when you turn off the CD player.

The CD player's advanced technology makes it simple to operate. But, be sure you read this Owner's Manual completely so you can take advantage of all its advanced features.

**Three Power Sources** — let you power your CD player from two standard or rechargeable nickel-cadmium AA batteries, standard AC power (with an optional AC adapter), or your vehicle's battery (with an optional DC adapter).

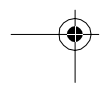
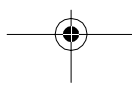
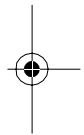
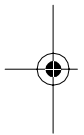
We recommend you record the CD player's serial number here. The number is in the battery compartment.

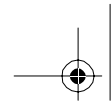
Serial Number \_\_\_\_\_

### 5- or 3-Inch CD Compatible

**Important:** You need a pair of stereo headphones, amplified speakers, or a home audio or car stereo system to use your CD-3620/CD-3640. Your local RadioShack store carries a complete line of these items.

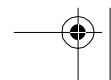
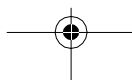
CDs that can be played on this player have this mark on them:





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## POWER SOURCES

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You can power your CD player from:

- Two AA batteries
- Standard AC power, using an AC adapter
- A vehicle's battery power, using a DC adapter

## USING BATTERIES

You can power your CD player from battery power using:

- **Two AA alkaline batteries** (such as RadioShack Cat. No. 23-552)
- **Two special AA rechargeable nickel-cadmium batteries** (RSU No. 11672508, available through your local RadioShack store).

You can charge these batteries while they are in the battery compartment using an AC or DC adapter. (See "Using AC Power" on Page 7 or "Using Vehicle Battery Power" on Page 8.)

- **Two standard AA rechargeable nickel-cadmium batteries** (such as Cat. No. 23-125).

Your CD player does not recharge standard AA rechargeable batteries inside its battery compartment, but you can charge them with an external battery charger (Cat. No. 23-133).

### Cautions:

- Use only fresh batteries of the required size and recommended type.
- Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.

All types of nickel-cadmium batteries come fully discharged. Be sure to fully charge the batteries before you use them the first time.

### Charging Tips

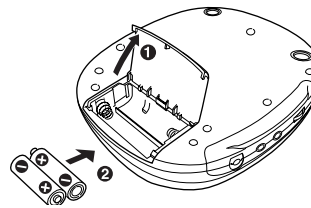
- It takes about 14 hours to charge fully discharged nickel-cadmium batteries in the CD player while it is not being used to play CDs.
- When the nickel-cadmium batteries fully charge, unplug the adapter from the AC outlet or cigarette-lighter socket, then disconnect the adapter from the CD player.
- You can play a CD while recharging the special nickel-cadmium batteries; however, this will cause the batteries to recharge more slowly.
- Always keep the charging terminals on the rechargeable batteries clean. Use a cotton swab dipped in alcohol to clean the terminals.
- Under normal usage conditions, nickel-cadmium batteries can be recharged about 500 times.

- Fully discharge the batteries occasionally by playing the CD player until it no longer plays. Then fully recharge the batteries. This helps restore the batteries' full charging capacity.
- Avoid charging the batteries in a hot environment (above 113°F) as this can permanently reduce the batteries' charging capacity.


**Caution:** Do not overcharge the batteries. Overcharging can significantly reduce the batteries' useful life.

**Important:** This CD player is capable of using rechargeable nickel-cadmium batteries. At the end of the batteries' useful life, they must be recycled or disposed of properly. Contact your local, county, or state hazardous waste management authorities for information on recycling or disposal programs in your area. Some options that might be available are: municipal curbside collection, drop-off boxes at retailers such as your local RadioShack store, recycling collection centers, and mail-back programs.

## Installing Batteries



1. Press down on the battery compartment cover and slide it away from the CD player, then lift the cover.
2. Place two AA batteries in the compartment as indicated by the polarity symbols (+ and -) marked inside.
3. Close the battery compartment cover.

Replace or recharge the batteries when  flashes on the display, the sound distorts, or the volume weakens.

### Cautions:

- Always dispose of old batteries promptly and properly; do not burn or bury them.
- If you do not plan to use the CD player for a month or more, remove and store the batteries.
- Never leave dead, old, or weak batteries in the CD player. Batteries can leak chemicals that corrode or damage electronic circuits.

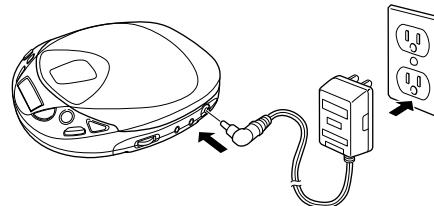
## USING AC POWER

You can power the CD player from a standard AC outlet using an AC adapter, such as Cat. No. 273-1664.

### Cautions:

- You must use an AC adapter that supplies 6 volts, and delivers at least 400 milliamps (CD-3620) or 500 milliamps (CD-3640). Its center tip must be set to positive, and its barrel plug must correctly fit the CD player's **DC IN 6V** jack. The recommended adapter meets these specifications. Using an adapter that does not meet these specifications could damage the CD player or the adapter.
- When you finish using the AC adapter, disconnect it from the AC outlet first, then unplug it from the CD player.
- Battery power disconnects when you connect an AC adapter to the CD player unless you are using special rechargeable nickel-cadmium batteries (see "Using Batteries" on Page 5). If you plan to use the CD player with AC power for an extended period of time (8 hours or more), remove the special nickel-cadmium batteries to prevent overcharging.

Follow these steps to use an AC adapter.



1. Attach the 4.0 mm outer diameter/ 1.7 mm inner diameter barrel plug to the adapter cord, matching + on the plug with TIP on the cord.
2. Set the adapter's voltage switch to 6V.
3. Insert the adapter's barrel plug into the CD player's **DC IN 6V** jack.
4. Plug the other end of the adapter into a standard AC outlet.

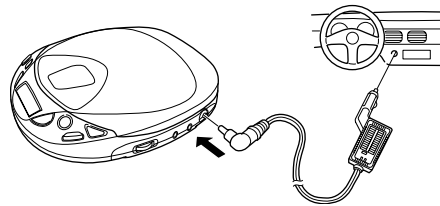
## USING VEHICLE BATTERY POWER

You can power your CD player from your vehicle's battery using a DC adapter, such as Cat. No. 273-1801.

### Cautions:

- You must use a DC adapter that supplies 6 volts and delivers at least 500 milliamps. Its center tip must be set to positive, and its barrel plug must correctly fit the CD player's **DC IN 6V** jack. The recommended adapter meets these specifications. Using an adapter that does not meet these specifications can damage the CD player or the adapter.
  - Disconnect the adapter from the cigarette-lighter socket when you are not using it, to prevent the vehicle's battery from being drained.
  - Always disconnect the adapter from the cigarette-lighter socket before you unplug it from the CD player.
  - If you park your vehicle in the sun, temperatures inside can easily reach levels that could damage your CD player and your CDs. To prevent heat damage, avoid leaving your CD player or CDs in your vehicle.
- Battery power disconnects when you connect a DC adapter to the CD player unless you are using special rechargeable nickel-cadmium batteries (see "Using Batteries" on Page 5). If you plan to use the CD player with vehicle battery power for an extended period of time (8 hours or more), remove the special nickel-cadmium batteries to prevent overcharging.

Follow these steps to use your vehicle's battery power.



1. Attach the 4.0 mm outer diameter/ 1.7 mm inner diameter barrel plug to the adapter cord, matching the + on the plug with TIP on the cord.
2. Set the adapter's voltage switch to 6V.
3. Insert the adapter's barrel plug into the CD player's **DC IN 6V** jack.
4. Plug the other end of the adapter into your vehicle's cigarette-lighter socket.



## CONNECTIONS

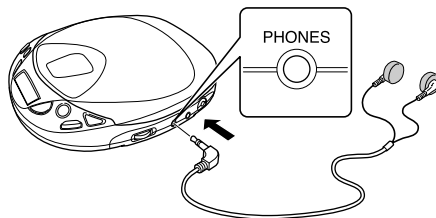
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You can listen to your CD player by connecting optional stereo earphones or amplified speakers to the player's **PHONES** jack, or by connecting a home audio or car stereo system to the player's **LINE OUT** jack.

You can mount your CD player in your car using a mounting bracket. Your local RadioShack store has a complete line of mounting kits.

### CONNECTING EARPHONES

For private listening, plug a pair of stereo earphones with a 1/8-inch plug (not supplied) into the CD player's **PHONES** jack.



### Listening Safely

To protect your hearing, follow these guidelines when you use earphones.

- Set the volume to the lowest setting before you begin listening. After you begin listening, adjust the volume to a comfortable level.
- Do not listen at extremely high volume levels. Extended high-volume listening can lead to permanent hearing loss.
- Once you set the volume, do not increase it. Over time, your ears adapt to the volume level, so a volume level that does not cause discomfort might still damage your hearing.

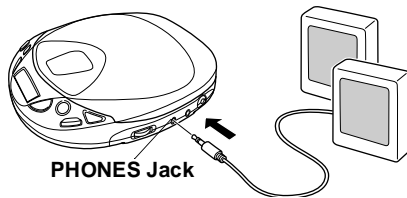
### Traffic Safety

Do not wear earphones while operating a motor vehicle or riding a bicycle. This can create a traffic hazard and could be illegal in some areas.

Even though some earphones let you hear some outside sounds when listening at normal volume levels, they still can present a traffic hazard.

## CONNECTING AMPLIFIED SPEAKERS

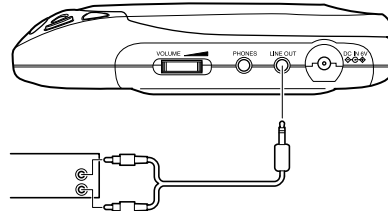
To listen to your CD player through a pair of amplified speakers, plug the speakers' 1/8-inch plug into the CD player's **PHONES** jack.



## CONNECTING TO AN AUTOSOUND SYSTEM

You can listen to your CD player through your autosound system in one of three ways.

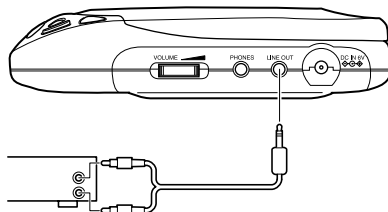
*If your autosound system has **LINE IN** jacks, connect the supplied Y-cable's 1/8-inch plug to the CD player's **LINE OUT** jack. Then connect the Y-cable's phono plugs to your autosound system's **LINE IN** input jacks. (If the jacks on your equipment do not match the plugs on the cable, check with your local RadioShack store for the proper cable adapter.)*



**Auto Sound System with Two LINE IN Jacks**

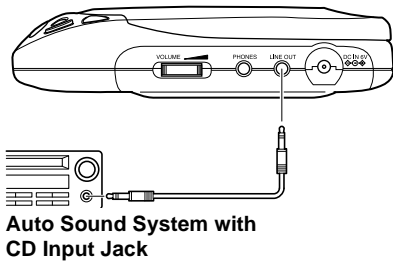
## CONNECTING TO A HOME AUDIO SYSTEM

To listen to your CD player through your home audio system's amplifier/receiver and full-size speakers, connect the supplied Y-cable's 1/8-inch plug to the CD player's **LINE OUT** jack. Then connect the Y-cable's phono plugs to the CD, AUX, or TV audio **LEFT** and **RIGHT** input jacks on your amplifier/receiver. (If the jacks on your equipment do not match the plugs on the Y-cable, check with your local RadioShack store for the proper cable adapter.)

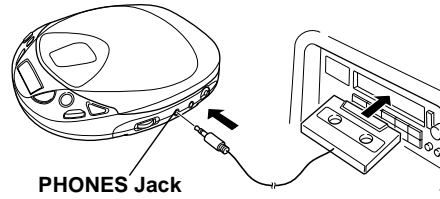


**Amplifier/Receiver with LEFT and RIGHT Input Jacks**

If your autosound system has a **CD input jack**, you need a stereo 1/8-inch patch cable, such as Cat. No. 42-2387. Connect one end to the CD player's **LINE OUT** jack and the other end to the autosound system's **CD INPUT** jack.



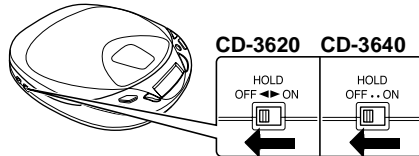
If your autosound system has a **cassette player but no CD INPUT or LINE IN jacks**, you can use a **CD-to-cassette adapter**, such as Cat. No. 12-1951. Insert the cassette adapter into your car's cassette player just as you would insert a regular cassette. Then connect the CD-to-cassette adapter's cord to the CD player's **PHONES** jack.



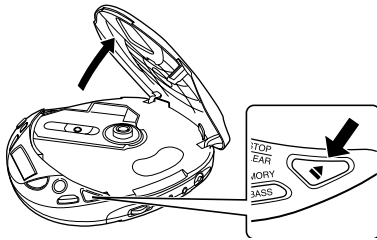
# OPERATION

## PLAYING A CD

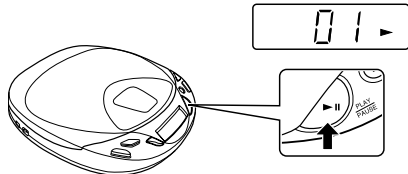
1. Set **HOLD** to **OFF**.



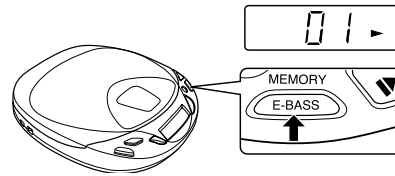
2. Press **▲** to open the disc compartment. Then handling the CD by its edges, carefully place it, label side up, over the compartment's center hub. Press gently on the CD's center so the CD lies flat in the compartment. Then close the compartment cover.



3. Press **PLAY/PAUSE ▶||**. The CD player automatically turns on, 00 flashes on the display, then Track 1 begins to play. The display shows the current track number.

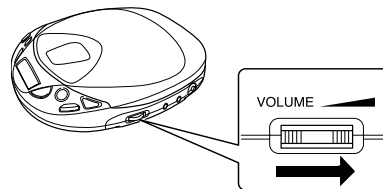


To display the current track's elapsed time, hold down **MEMORY/E-BASS** until the elapsed time appears. To return to the current track number, hold down **MEMORY/E-BASS** again until the current track number appears.



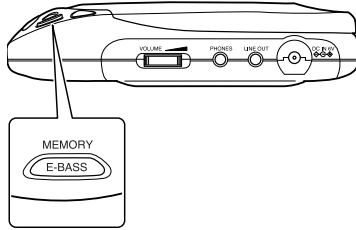
4. Adjust the volume to a comfortable listening level.

- If you connected headphones, amplified speakers, or a CD-to-cassette adapter to the CD player's **PHONES** jack, set **VOLUME** on the CD player to the desired level.

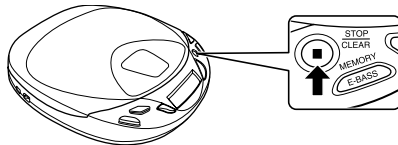


- If you connected the CD player's **LINE OUT** jack to your home audio system or your car's stereo, use the volume controls on those systems to set the desired volume level.

- To enhance the bass sound, briefly press **MEMORY/E-BASS**. **BASS** appears. To return to normal sound, press **MEMORY/E-BASS** again. **BASS** disappears.



5. When the last track finishes playing, the display alternately shows the total number of tracks and total playing time of the CD for about 2 minutes, then the CD player automatically turns off. To stop play and turn off the CD player sooner, press **STOP/CLEAR** ■ twice.



**Notes:**

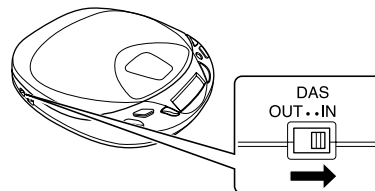
- E-Bass turns off when the CD player is turned off.
  - If you press **STOP** during play, the CD player exits **INTRO**, **RANDOM**, and **REPEAT** play.
6. To remove the CD, press ▲ to open the disc compartment. Be sure the CD has stopped spinning, then press the tab in the center of the disc compartment's

center hub and lift the CD. Then close the compartment cover.

## DIGITAL ANTI-SHOCK SYSTEM (DAS<sup>2</sup>) (CD-3640 ONLY)

Your CD-3640 contains special circuits to overcome sound skipping problems caused by shock or vibration. This means you can carry the CD player anywhere you go or use it in your vehicle. When you turn on the anti-shock system, the CD player continuously saves the next few seconds of music in memory. During a shock or vibration that would normally make a track skip or pause, the CD player plays directly from memory.

To turn on the anti-shock system, set **DAS** on the left side of the CD player to **IN**. If the CD player is playing a CD, the sound briefly stops and **DAS** appears.



To turn off the anti-shock system, set **DAS** to **OUT**. The sound briefly stops and **DAS** disappears.

**Note:** The CD player consumes additional battery power when you use the anti-shock system. When you use the CD player in a stable location, turn off the system to conserve battery power.

## LOCKING THE CONTROLS

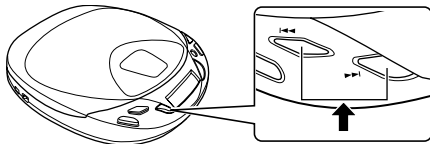
To prevent accidentally turning the CD player on or off, or changing the track you are listening to, slide **HOLD** to **ON**. No controls work except **▲**, **VOLUME**, **DAS** (CD-3640 only), and **HOLD**.

Slide **HOLD** to **OFF** to operate the controls again.

## AUDIBLE SEARCH

Use audible search during play to rapidly search forward or backward for a specific section of a track. During audible search, the CD plays at a lower volume and a higher speed. The current track's elapsed time appears on the display.

To search forward, hold down **▶▶▶**. To search backward, hold down **◀◀◀**. To resume normal play, release the control.



## AUTOMATIC SEARCH MUSIC SYSTEM (ASMS)

You can use ASMS before or during regular or programmed play (see "Programmed Play" on Page 16) to quickly locate any track on a CD.

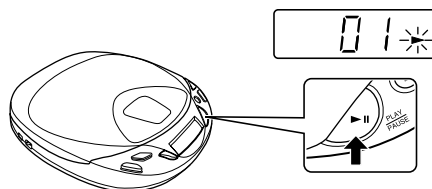
While the CD is stopped, repeatedly press **◀◀◀** or **▶▶▶** to move backward or forward to the desired track. Press **▶||** to play the track.





During play, press **◀◀◀** to return to the beginning of the current track. Press **◀◀◀** again to return to the beginning of the previous track. To move to the beginning of the next track, press **▶▶▶**.


## PAUSE AND CUE

To temporarily pause play, press **▶||**. **▶** flashes on the display. Press **▶||** again to resume play.

You can also use **▶||** to select (cue) a track before playing. When the CD player is stopped, press **▶▶▶** or **◀◀◀** to select the track you want to cue. Then press **▶||** twice. **▶** flashes.



To cue a track in a programmed sequence (see “Programmed Play” on Page 16), press **PLAY/PAUSE**  to pause the CD.  flashes. Then press  or  to display the track you want to cue.

To play the cued track, press **PLAY/PAUSE** .



## INTRO SCAN

The intro scan feature automatically plays the first 10 seconds of each track on a CD.

During play, repeatedly press **PLAY MODE** until **INTRO** appears on the display. Intro scan starts from the first track.


To return to normal play, press **PLAY MODE** so **INTRO** disappears from the display. The CD player resumes normal play.

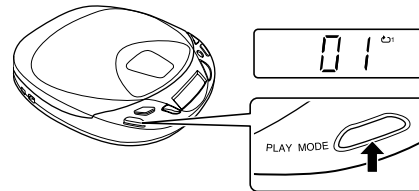
### Notes:


- Intro scan plays the tracks in the programmed order if you have programmed a sequence (see “Programmed Play” on Page 16).
- You can use  and  to skip through the tracks.

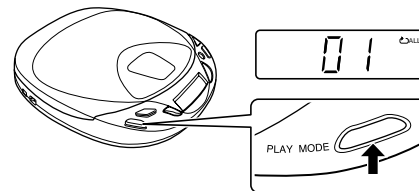
## REPEAT PLAY



Your CD player can repeatedly play a single track, the entire CD, or a programmed sequence (see “Programmed Play” on Page 16).

To repeat a single track, before or during play, repeatedly press **PLAY MODE** until  appears. At the end of the track, the CD player repeatedly plays it.



To repeat an entire CD or a series of programmed tracks, before or during regular or programmed play, repeatedly press **PLAY MODE** until  appears. When the CD player reaches the end of the CD or the programmed sequence, it returns to the first track and continuously replays all the tracks.



To cancel repeat play, repeatedly press **PLAY MODE** until  and  disappear.

## RANDOM PLAY

In random play, the CD player plays all the tracks once in random order, then automatically stops. To start random play at any time, repeatedly press **PLAY MODE** until **RANDOM** appears.

**Note:** If you select random play during programmed play, the CD player stops the programmed sequence and starts random play of all tracks.

To cancel random play, press **PLAY MODE** so **RANDOM** disappears.

selection number advances by one and the track number on the display returns to 00.

- Repeat Steps 3 and 4 for each track you want to program, up to 24 tracks.

**Note:** When you store the 24th track in memory, **FULL** appears.

- To play the programmed sequence, press **PLAY/PAUSE** ►|||. **PGM** appears and the first track in the sequence plays.

While the programmed sequence plays, you can use ►►| or |◄◄ to move forward or backward in the sequence.

- After the last programmed track ends, the CD player stops. To manually stop the CD before the end of the sequence, press **STOP/CLEAR** ■.

- To replay the programmed sequence, press **PLAY/PAUSE** ►||| within 2 minutes.
- To check the programmed sequence, press **MEMORY/E-BASS** within 2 minutes. The display shows the number of the first programmed track. Each time you press **MEMORY/E-BASS**, the display shows the number of the next track in the sequence.

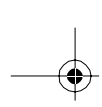
## PROGRAMMED PLAY

You can program up to 24 tracks on a CD to play in any order you choose, and you can program the same track to play more than once.

Follow these steps to program and play a sequence.

- Press **PLAY/PAUSE** ►||| to start the CD player, then press **STOP/CLEAR** ■.
- Hold down **MEMORY/E-BASS** until the selection number (01) and the track number (00) appear as **PGM** flashes.
- Repeatedly press either ►►| or |◄◄ to display the number of the first track you want to program.
- Press **MEMORY/E-BASS** to store the selected track number. The

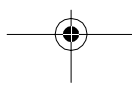
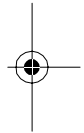
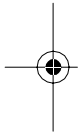




- 
- To add to the end of a programmed sequence, hold down **MEMORY/E-BASS** until the first programmed track appears, then repeatedly press **MEMORY/E-BASS** (within 2 minutes) until track number **00** appears. Then follow Steps 3 and 4.

If you do not press a button within 2 minutes after the CD player stops, it turns off and clears the programmed sequence.

To clear the programmed sequence sooner, press **STOP/CLEAR** ■ twice.

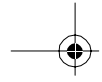




## TROUBLESHOOTING

With proper care and handling, your CD player should give you years of trouble-free service. However, if your CD player is not working properly, follow these suggestions to see if you can eliminate the problem. If you still have a problem, take the CD player to your local RadioShack store for assistance.

Problem	Possible Cause	Suggestion
Operation controls do not work.	Hold function is active.	Set <b>HOLD</b> to <b>OFF</b> .
	No power.	Check the batteries or adapter.
CD is loaded, but it does not start.	CD is loaded upside down.	Reload the CD, label side up.
	CD is dirty.	Clean the CD or try a different CD. See "CD Care Tips" on Page 20.
The sound skips.	CD is dirty or scratched.	Clean the CD or try a different CD. See "CD Care Tips" on Page 20.
	Vibration is heavy.	Try not to vibrate the CD player.
		Try activating the anti-shock system. (CD-3640 only)
Moisture condenses on the pickup lens.	Wait 1 hour for the moisture to evaporate.	



## CARE AND MAINTENANCE

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Your Optimus CD-3620/CD-3640 Portable Compact Disc Player is an example of superior design and craftsmanship. The following suggestions will help you care for your CD player so you can enjoy it for years.



Keep the CD player dry. If it gets wet, wipe it dry immediately. Liquids might contain minerals that can corrode the electronic circuits.



Use and store the CD player only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, damage batteries, and distort or melt plastic parts.



Keep the CD player away from dust and dirt, which can cause premature wear of parts.



Handle the CD player gently and carefully. Dropping it can damage circuit boards and cases and can cause the CD player to work improperly.

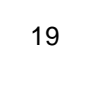
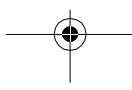
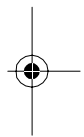
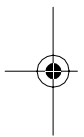


Use only fresh batteries of the required size and type. Old batteries can leak chemicals that damage your CD player's electronic parts.



Wipe the CD player with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the CD player.

Modifying or tampering with the CD player's internal components can cause a malfunction and might invalidate your CD player's warranty and void your FCC authorization to operate it. If your CD player is not performing as it should, take it to your local RadioShack store for assistance.





## CD CARE TIPS

- Do not place anything but a CD in the disc tray. Doing so can damage the drive mechanism.
- During playback, a severe shock or jolt could make the CD's rotation speed change suddenly and produce some noise. This is not a malfunction.
- Always handle a CD by the edges and keep it in its protective case or sleeve when it is not in use. Fingerprints and scratches on the CD's surface can prevent the laser beam from correctly reading the digital information. To clean the CD, use a CD cleaner kit (Cat. No. 42-226).
- A scratch on the CD's surface can make the CD skip or stop playing. If the CD gets scratched, use Scratch 'n Fix (Cat. No. 42-127) to repair the scratch.
- Keep CDs dry. A water drop can act as a lens and affect the laser beam focus.

## FCC INFORMATION

This equipment complies with the limits for a Class B digital device as specified in Part 15 of *FCC Rules*. These limits provide reasonable protection against radio and TV interference in a residential area. However, your CD player might cause TV or radio interference even when it is operating properly. To eliminate interference, you can try one or more of the following corrective measures:

- Increase the distance between the CD player and the radio or TV.
- Use outlets on different electrical circuits for the CD player and the radio or TV.
- Consult your local RadioShack store if the problem still exists.

## LASER SAFETY

This unit employs a laser. Only qualified service persons should remove the cover or attempt to service this device, due to possible eye injury.

**Warning:** The use of controls or adjustments or the performance of procedures other than specified herein can result in hazardous exposure to laser light.



# SPECIFICATIONS



## Audio

Frequency Response ( $\pm 3$ dB) .....	20–20,000 Hz
Dynamic Range .....	80 dB
Signal-to-Noise Ratio .....	80 dB
Harmonic Distortion at 1 kHz .....	0.07%
Separation at 1 kHz .....	70 dB
Wow/Flutter .....	Not Measurable
Headphones Output (10% THD at 32 ohm) .....	6 mW + 6 mW
Line Output .....	0.6 V

## Disc

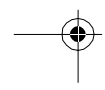
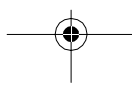
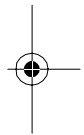
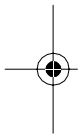
Diameter .....	Standard 5-Inch and 3-Inch CDs
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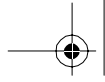
## Signal Format

Sampling Frequency .....	44.1 kHz
Oversampling .....	8 Times
Quantization Number .....	16-Bit Linear/Channel
Transmission Bit Rate .....	4.3218 Mb/Second
Signal-Processing Rate .....	352.8 kHz

## Pick-Up

Tracking System .....	3-Beam Tracking Servo Type
Object Lens Drive System .....	2-Dimensional Parallel Drive
Optical Source .....	Semiconductor Laser
Wavelength .....	780 nm





**General**

Power Requirements ..... DC 3V; Two AA Size Alkaline  
or Special Rechargeable Nickel-Cadmium Batteries (Not Supplied),  
Optional AC Adapter (273-1664),  
or Optional DC Adapter (273-1801)

Power Consumption ..... 8 W

Battery Life (EIAJ Method)

CD-3620 ..... 9 Hours

CD-3640 ..... 7.5 Hours with DAS<sup>2</sup> off

Dimensions (HWD) ..... 1<sup>3</sup>/<sub>16</sub> × 5<sup>1</sup>/<sub>4</sub> × 6 Inches  
(30 × 134 × 153 mm)

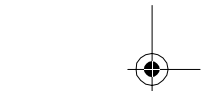
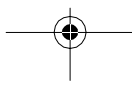
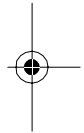
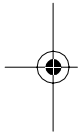
Weight (without batteries)

CD-3620 ..... 9 oz (255 g)

CD-3640 ..... 9.1 oz (258 g)

Included Accessory ..... Y-Cable

Specifications are typical; individual units might vary. Specifications are subject to  
change and improvement without notice.

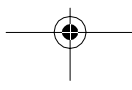


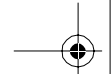


# NOTES

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### Limited One-Year Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for one (1) year from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the limitations on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

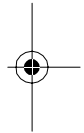
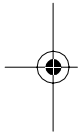
This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

RadioShack Customer Relations, Dept. W, 100 Throckmorton St., Suite 600, Fort Worth, TX 76102

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**A Division of Tandy Corporation**  
**Fort Worth, Texas 76102**

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